In the Claims

Cancel claim 6 without prejudice, as the subject matter thereof has been incorporated into amended claim 1, and amend claims 1 and 2 as follows:

-- 1 (Amended). Apparatus adapted to sending transmission packets of predetermined length, the apparatus comprising formatting means suitable for formatting a first type of packet on the basis of a first training sequence and of a first information sequence, wherein in order to send a second information sequence longer than the first information sequence, said formatting means are also designed to format a second type of packet on the basis of a second training sequence that corresponds to a subsequence of said first training sequence shorter than the first training sequence, and of said second information sequence, said formatting means formatting a packet whose type is identified by an identification signal.

-- 2 (Amended). Apparatus according to claim 1 comprising single encoding means to produce said first and second information sequences respectively from first and second messages.

Cancel claim 7 without prejudice, as the subject matter thereof has been incorporated into amended claim 3, and amend claims 3, 4 and 5 as follows:

-- 3 (Amended). Apparatus adapted to receiving transmission packets of predetermined length, wherein a received packet being either of a first type (B1) or of a second type and comprising a respective first or second training sequence together with a respective first or second information sequence, the second information sequence being longer than the first information sequence, it comprises detector means or isolating the information sequence of said received packet in response to a selection signal identifying the type of said packet and said second training sequence corresponding to a subsequence of said first training sequence, it comprises single demodulator means for demodulating packets of both types.

-- 4 (Amended). Apparatus according to claim 3, wherein the information sequences of the different packets result from encoding of the same kind, and the apparatus comprises single decoding means for decoding both said first and said second information sequences.

-- 5 (Amended). Apparatus according to claim 3 wherein said second information sequence contains more information than said first information sequence.

Cancel claim 8 without prejudice, and substitute new claim 9 in its place as follows:

-- 9 (new). Apparatus adapted to sending transmission packets of predetermined length, the apparatus comprising formatting means suitable for formatting a first type of packet on the basis of a first training sequence and of a first information sequence wherein in order to send a second information sequence longer than the first information sequence, said formatting means are also designed to format a second type of packet on the basis of a second training sequence that has a same length as a subsequence of said first training sequence shorter than the first training sequence, and of said second information sequence, said formatting means formatting a packet whose type is identified by an identification signal, said second training sequence being orthogonal to subsequences of the same length of said first training sequence.

Remarks

The examiner's reconsideration of the application is requested in view of the amendments above, attachments hereto, and comments which follow.

Turning first to the abstract as mentioned in numbered section 1 on page 2 of the office action, a new abstract is appended hereto for consideration. It is believed that the abstract meets all requirements of the Patent and Trademark Office, and approval is requested.